**CIS 5600 Information Security Management Term Project**

**Statement of Work**

**Note: Choose either 1, 2 or 3 (you don’t have to do ALL three)!**

1. **Implementation**
   * You can implement an existing technique, protocol, or system. The outcome should be a report that describes your implementation and a demo to the instructor. Your grade will be based on the quality of the report, the functionality and robustness of the implementation.
   * I may require you work on your own, depending on the complexity of the implementation.
   * Example topics:
     + Security Tools and/or Software
     + Cryptographic algorithms such as AES, RSA, DSA, etc.
     + Authentication protocols such as S/Key, Challenge-Response protocol.
     + Firewall Technology
     + Developing/extending intrusion detection systems

# Requirements for Project Proposal

**(5 points)**

Each group must submit a project proposal, which must have a title page, main content, and references. The proposal should be **single-column, 1 inch margins, 11-point size**. The proposal should be at most 5 pages (excluding title page and references).

The **title page** should include (either 1, 2 or 3 should ALL have this)

* the title of the paper or project
* group member name(s) and email address(es)
* course name, number, and instructor's name
* a maximum 300-word abstract
* three to five keywords.

1. For **implementation** oriented project, the main content should include the following:

* A summary of the system, algorithm, or protocol you want to implement.
* Justification about why you want to implement it.
* The architecture of your implementation.
* Your implementation plan, including milestones (or check points) and deliverables.
* Your plan for demonstrating your implementation. You may have to write additional programs to demonstrate implementation. In this case, you should explicitly identify what these additional programs are.
* A reference list with at least 5 references.
* 10 minute presentation to the class

**Requirements for Project Final Report(25pts)**

Each group must submit a project final report. The report must have a title page, main content, and references. The report should be **single-column, 1 inch margins, 11-point size**. To facilitate the grading of your report, please follow the suggested organization listed below.

The **title page** should include (either 1, 2 or 3 should ALL have this)

* the title of the paper or project
* group member name(s) and email address(es)
* course name, number, and instructor's name
* a maximum 300-word abstract
* three to five keywords.

1. For **implementation** oriented project, the main content should include the following:

* Introduction
  + Discuss the background
  + Summarize the basis of your implementation
  + Summarize the design of your implementation.
  + Summarize the validation of your implementation (e.g., test, demonstration)
* Implementation details
  + Architecture description (not required for implementation of crypto algorithms).
  + Description of the basis of your implementation (e.g., algorithms, protocols, etc.)
  + Description of your implementation.
* Testing (or performance evaluation if you implemented crypto algorithms)
  + Description of the testing (or evaluation) environments
  + Description of the testing (or evaluation) process
  + Description of the testing (or evaluation) results
* Conclusions and possible future work
  + Summarize the conclusions of your survey.
* References
  + List all the citations referenced in your paper. You will lose points for each dangling reference (i.e., the reference not cited in the main text).
* 15-20 minute presentation to the class